

WHAT IS CLAIMED IS:

1. An electronic part transport device comprising:
a transport medium having a plurality of cavities arranged in lines, said lines being concentric with respect to a rotation axis;
driving means for rotationally driving said transport medium;
supply means for separating and supplying a plurality of randomly introduced electronic parts one by one;
delivery means for feeding the electronic parts, which are separately supplied by said supply means, into said lines of said cavities of said transport medium; and
removal means for removing the electronic parts from said cavities of said transport medium.

2. The electronic part transport device according to Claim 1, wherein said supply means comprises:
a parts feeder having a same number of aligning paths as number of said lines of said cavities in said transport medium to successively supply the electronic parts which are introduced at random while aligning the electronic parts in said aligning paths; and
separating means disposed at a distal end of each of said aligning paths to separate one by one the electronic parts which are successively conveyed by said parts feeder.

3. The electronic part transport device according to Claim 1, wherein said supply means comprises:
a parts feeder for successively supplying the randomly introduced electronic parts while aligning the electronic parts;

a distributing rotor for separately distributing the electronic parts, which are aligned and supplied by said parts feeder, into a plurality of recesses formed on an outer periphery thereof; and

driving means for rotationally driving said distributing rotor in one direction.

4. The electronic part transport device according to Claim 1, wherein said supply means comprises:

a feeding disk having on an upper surface a feeding groove extending in a radial direction to align the electronic parts, and a recess disposed at an outer peripheral end of said feeding groove to hold one electronic part, said upper surface being inclined with respect to a horizontal plane; and

driving means for rotationally driving said feeding disk in one direction, and

wherein a plurality of electronic parts, which are randomly introduced on the upper surface of said feeding disk, are guided from said feeding groove to said recess by rotation of said feeding disk, and are separately held in and removed from said recess.

5. The electronic part transport device according to Claim 1, wherein said delivery means includes a transfer chute having a plurality of guide paths for separately guiding the electronic parts, which are separately supplied by said supply means, to said respective lines of said cavities of said transport medium.

6. The electronic part transport device according to Claim 1, further comprising an electronic part inspection apparatus wherein a plurality of inspecting sections are placed around said transport medium to simultaneously

inspect the same number of electronic parts held in said cavities as the number of said lines of said cavities.

7. The electronic part transport device according to Claim 2, further comprising an electronic part inspection apparatus wherein a plurality of inspecting sections are placed around said transport medium to simultaneously inspect the same number of electronic parts held in said cavities as the number of said lines of said cavities.

8. The electronic part transport device according to Claim 3, further comprising an electronic part inspection apparatus wherein a plurality of inspecting sections are placed around said transport medium to simultaneously inspect the same number of electronic parts held in said cavities as the number of said lines of said cavities.

9. The electronic part transport device according to Claim 4, further comprising an electronic part inspection apparatus wherein a plurality of inspecting sections are placed around said transport medium to simultaneously inspect the same number of electronic parts held in said cavities as the number of said lines of said cavities.

10. The electronic part transport device according to Claim 5, further comprising an electronic part inspection apparatus wherein a plurality of inspecting sections are placed around said transport medium to simultaneously inspect the same number of electronic parts held in said cavities as the number of said lines of said cavities.

11. The electronic part transport device according to Claim 6, wherein said inspecting sections are each formed of a characteristic measuring device having a measuring terminal, said characteristic measuring device measures electrical characteristics of the electronic parts held in said lines of said cavities by contacting said measuring terminals with the electronic parts when said transport medium is rotated to a predetermined position.

12. The electronic part transport device according to Claim 7, wherein said inspecting sections are each formed of a characteristic measuring device having a measuring terminal, said characteristic measuring device measures electrical characteristics of the electronic parts held in said lines of said cavities by contacting said measuring terminals with the electronic parts when said transport medium is rotated to a predetermined position.

13. The electronic part transport device according to Claim 8, wherein said inspecting sections are each formed of a characteristic measuring device having a measuring terminal, said characteristic measuring device measures electrical characteristics of the electronic parts held in said lines of said cavities by contacting said measuring terminals with the electronic parts when said transport medium is rotated to a predetermined position.

14. The electronic part transport device according to Claim 9, wherein said inspecting sections are each formed of a characteristic measuring device having a measuring terminal, said characteristic measuring device measures electrical characteristics of the electronic parts held in said lines of said cavities by contacting said measuring terminals with the electronic parts when said transport medium is rotated to a predetermined position.

15. The electronic part transport device according to Claim 10, wherein said inspecting sections are each formed of a characteristic measuring device having a measuring terminal, said characteristic measuring device measures electrical characteristics of the electronic parts held in said lines of said cavities by contacting said measuring terminals with the electronic parts when said transport medium is rotated to a predetermined position.

16. The electronic part transport device according to Claim 1, wherein said delivery means simultaneously feeding the electronic parts into one line of said cavities.

17. The electronic part transport device according to Claim 1, wherein said removal means simultaneously removing the electronic parts from one line of cavities.

18. The electronic part transport device according to Claim 1, wherein said removal means is located immediately adjacent said delivery means.

19. An electronic part transport device comprising:
a transport medium having a plurality of cavities arranged in lines in a radial direction with respect to a rotation axis;
a driving means for rotationally driving said transport medium;
supply means for separating and supplying one by one a plurality of randomly arranged electronic parts;
delivering means for simultaneously feeding the electronic parts from the supply means into one of said lines of cavities; and
removal means for simultaneously discharging the electronic parts from one of said lines of cavities.

20. An electronic part transport device comprising:
 - a transport medium having a plurality of cavities arranged in lines in a radial direction with respect to a rotation axis;
 - a driving means for rotationally driving said transport medium;
 - supply means for separating and supplying one by one a plurality of randomly arranged electronic parts;
 - delivering means for simultaneously feeding the electronic parts from the supply means into one of said lines of cavities;
 - removal means for simultaneously discharging the electronic parts from one of said lines of cavities; and
 - a plurality of inspection means, placed around said transport medium, each inspection means for simultaneously inspecting the electronic parts held in one of said lines of cavities.